





```
Testing Commands for validating your configuration file:
1. Basic Connectivity Test:
                             •••
                             $ curl -I http://localhost/
                             $ curl http://localhost/status
2. IP Whitelisting Test (should work only for allowed IPs):
                    ...
                    $ curl -I http://localhost/download/file.update
3. User-Agent Filtering (Allow only CRT-ID):
                $ url -A "CRT-ID" http://localhost/download/file.update
4. Extension Spoofing Detection (Only works with correct User Agent):
             ...
              $ curl -A "CRT-ID" -v http://localhost/download/file.update
5. Rate Limiting Test (burst-allowed requests will pass, then 503):
           ...
                 echo "Request $i:"
                 curl -A "CRT-ID" -I http://localhost/download/file.update
               done
6. Direct Payload Redirection (Google.com or LinkedIn redirect):
                    \bullet \bullet \bullet
                    $ curl -I http://localhost/payloads/implant.bat
```

Important Notes:

All answers must follow the Flag Format provided in each question.

Few answers require configuration file updation and testing as per the requirements & some can be answered without any testing

You are free to modify the configuration in any way to achieve all correct 10 questions in order to earn CWL CRT-ID certificate.

In total you will have 2 exam attempts, in case if you fail 1st, you will have a chance to attempt another. If you fail both, email support@cyberwarfare.live for extension.

1. Block All Non-CRT-ID User-Agents

Scenario: The red team s command tools use a unique User-Agent header ("CRT-ID") that must be allowed. All other tools, scanners, or browsers should be blocked with HTTP 403 to reduce detection.

Task: Write the complete if block that performs case-insensitive matching to allow only the "CRT-ID" User-Agent.

Flag Format: if (\$http_user_agent !-* "REGEX_PATTERN") { return STATUS_CODE; }

if (\$http_user_agent!~* "CRT-ID") { return 403; }

Completed

2. Whitelist Only 10.10.10.0/24 for "/download"

Scenario: The payload endpoint "/download" must only be accessible to red team machines inside the 10.10.10.0/24 operational subnet. All others must be denied to prevent exposure.

Task: Write the allow/deny block where allow comes before deny, using "deny all;" as the deny rule.

Expected Answer Format: Two-line access control

Flag Format: allow 0.0.0.0/24;deny all;

allow 10.10.10.0/24;deny all;

Completes

3. Rewrite Specific File Only

Scenario: A red team beacon fetches the payload by requesting "/download/file.update". This must be internally mapped to "/payloads/implant.bat" without exposing the real path or triggering an external redirect.

Task: Write the exact rewrite directive (with regex) to internally map /download/file.update to /payloads/implant.bat using break.

Expected Answer Format: Complete Nginx rewrite directive

Flag Format: rewrite ^/path/to/file\$ /new/path break;

rewrite ^/download/file \.update\$ /payloads/implant.bat break;

Completed

4. Add Redirection Logic for Direct Payload Access

Scenario: If anyone tries to directly access /payloads/implant.bat (such as blue team analysts), they should be redirected to a decoy destination to avoid revealing real infrastructure.

Task: Write the location block that redirects direct access to /payloads/implant.bat to https://www.google.com using 302 redirect.

Expected Answer Format: Full location block

Flag Format: location = /file { return 302 URL; }

location = /payloads/implant.bat { return 302 https://www.google.com; }

5. Rate Limit Burst Protection

Scenario: Your red team's legitimate automated tools are being blocked by the current rate limiting configuration. You need to allow a small burst of requests to accommodate normal operation patterns while still preventing blue team enumeration attempts.

Task: Write the complete "limit_req" directive that uses the ratelimit_zone, allows a burst of 2 additional requests, and applies the nodelay parameter for immediate processing.

Expected Answer Format: Single directive

Flag Format: limit_req zone=ZONE_NAME burst=X nodelay;

limit_req zone=ratelimit_zone burst=2 nodelay;

Completed

6. Change Internal Proxy Port

Scenario: Your team server hosting the actual payloads has been moved to a different port for operational security. The internal payload server is now running on port 8080 instead of port 8443.

Task: Write the complete proxy_pass directive that forwards requests to the internal server running on 127.0.0.1:8443.

 $\textbf{Expected Answer Format:} \ \textbf{Complete proxy_pass directive with semicolon}$

Flag Format: proxy_pass http://IP:PORT/;

proxy_pass http://127.0.0.1:8080/;

7. Redirect to Business Site for OpSec

Scenario: For better operational security against blue team analysis, direct access to your payload should redirect to a commonly accessed business site. Change the redirect target to https://www.linkedin.com to blend in with corporate network traffic.

Task: Write the complete return directive that will perform a temporary redirect (302) to https://www.linkedin.com.

Expected Answer Format: Complete return directive with status code and URL Flag Format: return 302 URL;

return 302 https://www.linkedin.com;

Completed

8. Create a Status Endpoint with IP Whitelist

Scenario: You need to expose a "/status" endpoint that allows local health checks by the redirector itself, but blocks all other external monitoring tools.

Task: Write a location block that returns a plain 200 "OK" when "/status" is accessed, but only if the request comes from 127.0.0.1.

Expected Answer Format: Full location block

Flag Format: location /path { allow IP; deny all; return CODE "RESPONSE"; }

location /status { allow 127.0.0.1; deny all; return 200 "OK"; }

Completed

```
9. Match User-Agent "CRT-ID123" or Similar with Digits
Scenario: Your team rotates User-Agent values dynamically by appending numbers,
e.g., CRT-ID001, CRT-ID77, etc. You want to allow these variants only, while blocking all
others.
Task: Write a case-insensitive regex to match user-agent "CRT-ID123" or "crt-id99"
using an if block that allows access only if the pattern matches.
Expected Answer Format: Full if block
Flag Format: if ($http_user_agent!~* "REGEX") { return 403; }
if ($http_user_agent!~* "^CRT-ID\d+$") { return 403; }
Completed
10. Block Default User Agent String
Scenario: You've noticed that most automated scans and basic recon tools (like curl)
use a default User-Agent string that includes the word "curl". You want to proactively
block all such requests to prevent unauthorized enumeration.
Task: Write the complete Nginx if block that returns 403 when the request's User-
Agent contains the string "curl", case-insensitively.
Expected Answer Format: Full if block using a case-insensitive match
Flag Format: if ($http_user_agent ~* "STRING") { return 403; }
if ($http_user_agent ~* "curl") { return 403; }
```

The config file is enough to answer all questions – copy paste only!

```
server {
listen 80;
server_name default;

# Block All Non-CRT-ID User-Agents & Match User-Agent with Digits
location /download {
# Block All Non-CRT-ID User-Agents
if ($http_user_agent !~* "CRT-ID") { return 403; }

# Match User-Agent "CRT-ID123" or Similar with Digits
if ($http_user_agent !~* "^CRT-ID\d+$") { return 403; }

# Block Default User Agent String
if ($http_user_agent ~* "curl") { return 403; }

# Whitelist Only 10.10.10.0/24 for "/download"
allow 10.10.10.0/24;
deny all;
```

```
# Rate Limit Burst Protection
limit_req zone=ratelimit_zone burst=2 nodelay;
# Rewrite Specific File Only
rewrite ^/download/file\.update$ /payloads/implant.bat break;
# Change Internal Proxy Port
proxy_pass http://127.0.0.1:8080/;
# Create a Status Endpoint with IP Whitelist
location /status {
allow 127.0.0.1;
deny all;
return 200 "OK";
}
# Redirect to Business Site for OpSec (Direct Payload Access)
location = /payloads/implant.bat {
return 302 https://www.linkedin.com;
}
```